★ Introduction

Thanks for using T53 series light dimmer. Before installation, please read this brochure carefully. T53 (8A) R04 is an intelligent light dimmer dedicated to LED lighting. With the advanced PWM (Pulse Width Modulation) digital dimming technology, it can realize 64-level grey-scale control as well as dimming through RF wireless remote controller.

★ Technology specification

- Model：T53 (8A) R04
- Input voltage: DC12-24V
- Output current：8A
- No-load power consumption：≤1w
- RF remote distance：≤100m
- Working temperature：-20-70℃
- Dimension: Master controller 110*55*35（mm）
  Remote controller 58*30*12(mm)
- Packing dimension:70*50*140（mm）
- G.W.:≤90g

★ Function

- 0～100 brightness adjustment, wireless remote light dimming
- 64-level grey-scale adjustment to make light more soft and comfortable.
- To meet the standards of ROHS
- PWM digital dimming+ designed to eliminate current surges to extend the life span of the LED.

★ Safety instruction

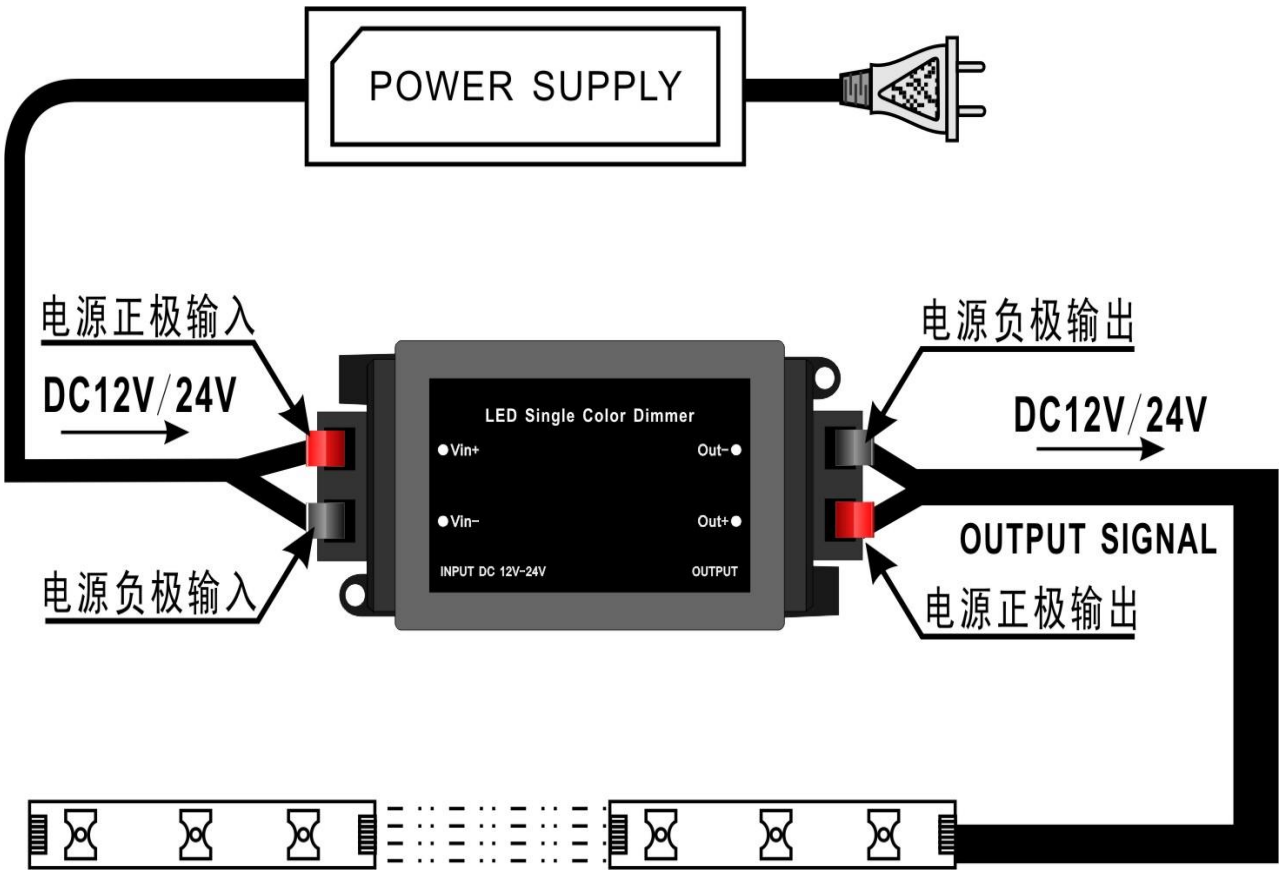
- For installation, try to avoid the minefields, strong magnetic field and high-pressure area.
- Ensure that the wire is connected correctly and firmly in order to avoid short-circuit damage to parts and posing a fire hazard.
- Please install controller in a well-ventilated place to ensure that the surrounding temperature is moderate.
- Before using this product, please check the DC power and voltage meet the product technical requirements; positive and negative polarity is defined consistent to the product.
- If any problems do not make unauthorized repairs. Any doubts please contact your

local supplier.

- All the right for the final explanation is ultimately owned by the company.

★ Connection diagram of dimmer and remote controller

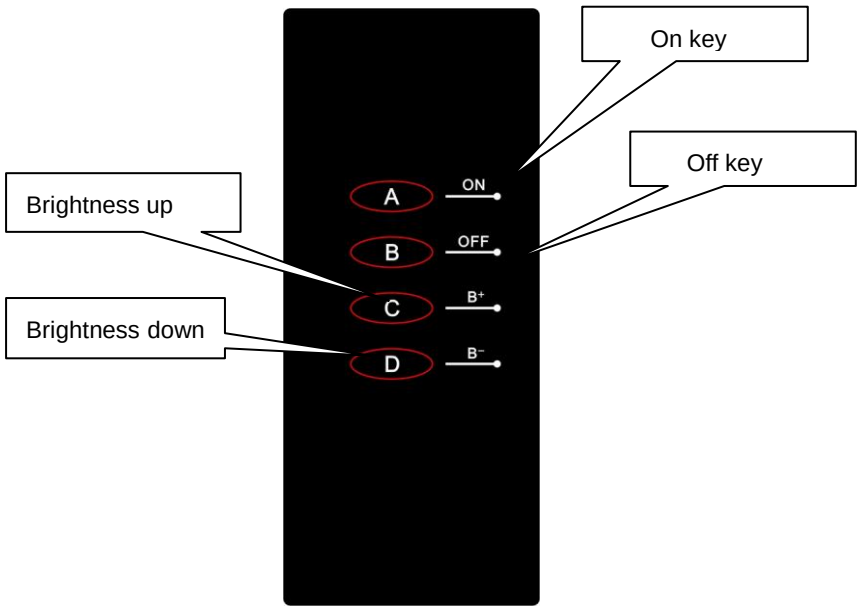
- Dimmer and power connection diagram



Description: Vin+: Positive Power input Vin-: negative power input

OUT+: Positive Power output OUT-: negative power output

- Remote key description:



- Failure analysis and solutions

Failure	Analysis	Solution
No response connecting with the LED bar	1. Switching power dose not work 2. Reversed polarity of power supply **3.** Wrongly connected line or poor contact.	1. Check the power for the switch. 2. Change the polarity of the power supply. 3. Re-check the line connection.
Before and after inconsistency of LED brightness	1. Output line is too long to cause the pressure drop 2. Line diameter is too small to cause the pressure drop 3. Power overload. 4. Controller overload	1. Shorten supply lines, or use loop supply. 2. Calculate the current and replacement of thick lines. 3. Change for a larger power. 4. Increase a power amplifier.

Tips: The effective power of switching power supply is generally only 85% of the marked power, so it is recommended in selecting the power supply, the user choose a slightly larger one than the LED load power, at least for more than 20%!